

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638739

Luminaire Tested: GWS-SA4F-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28532.9 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

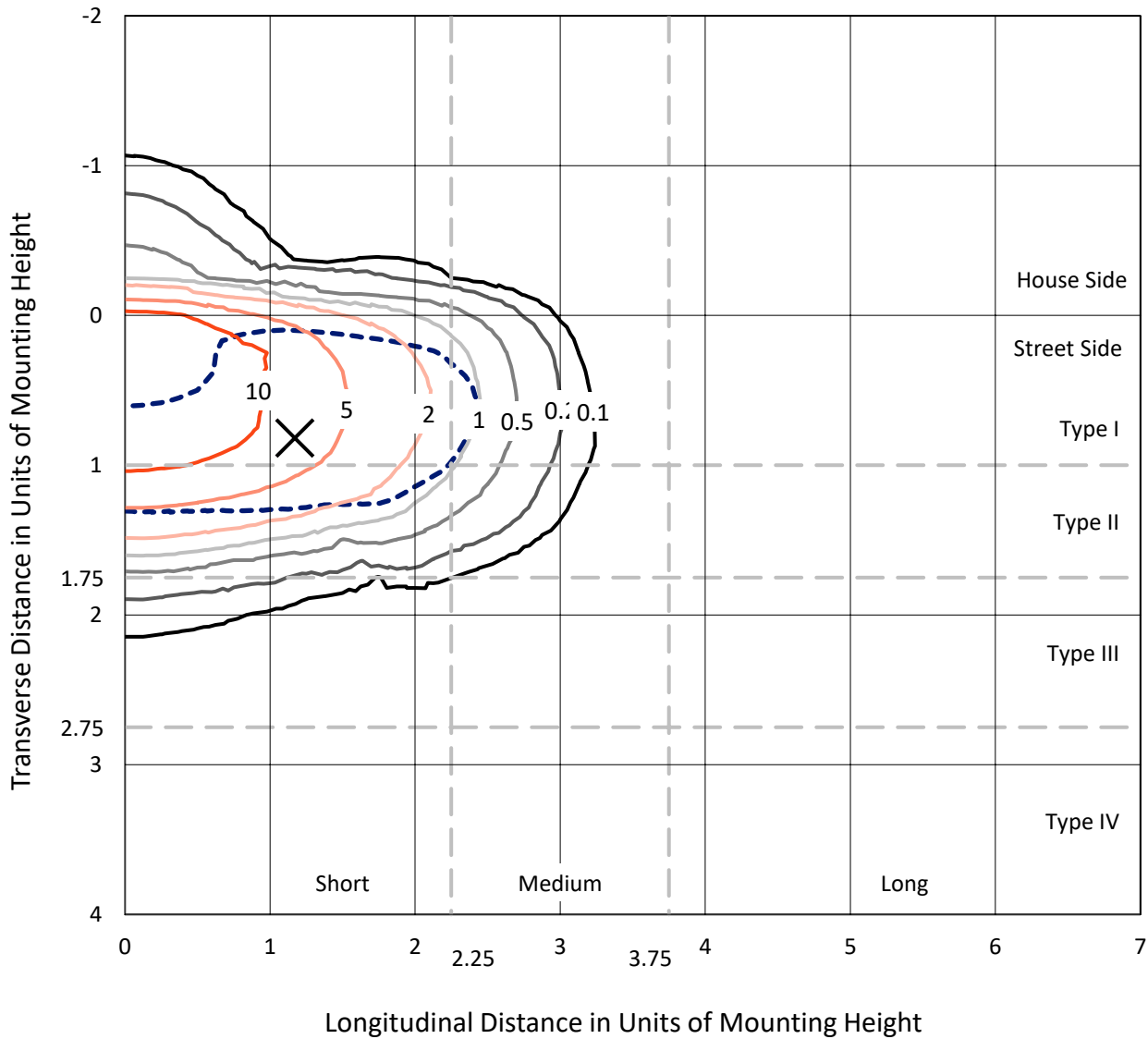
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

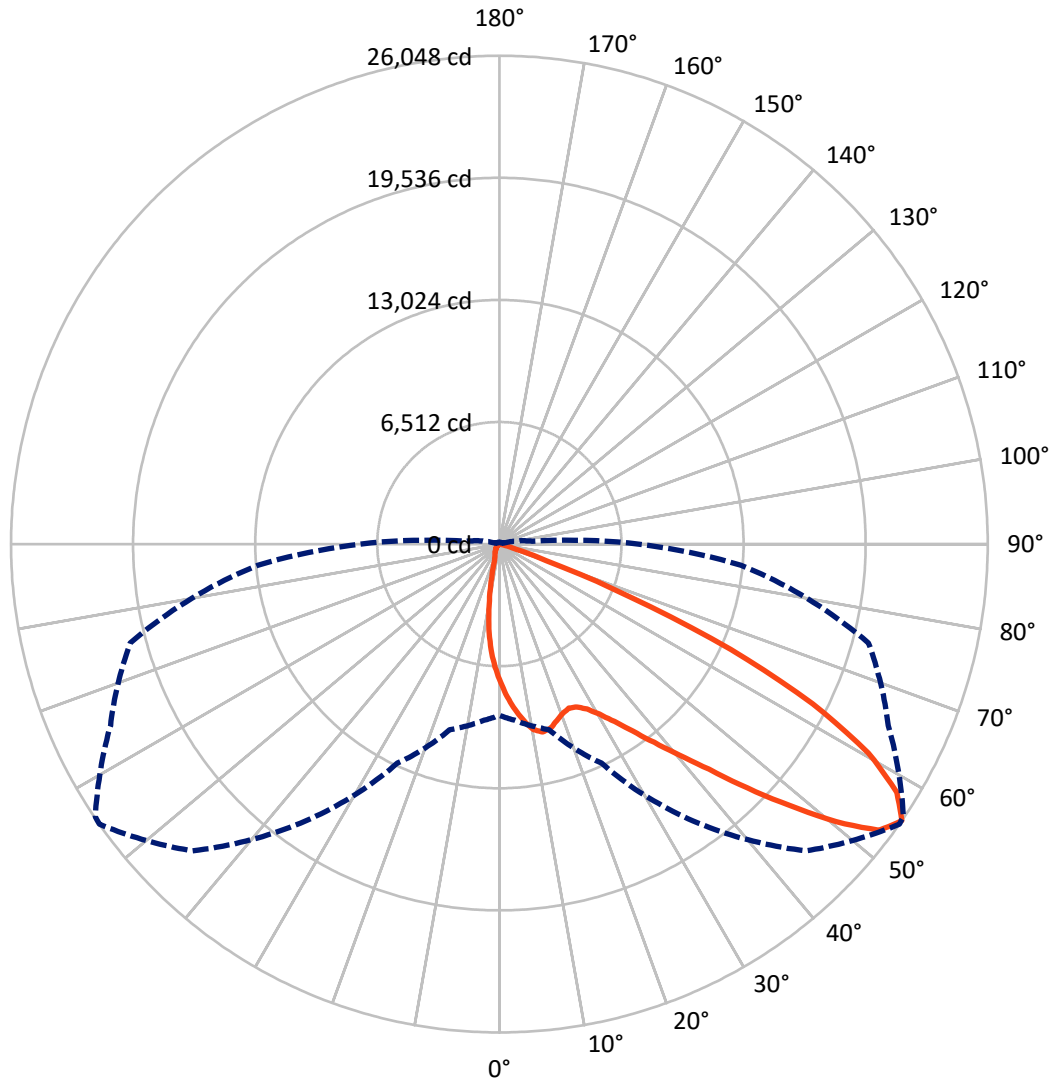
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1760.6	0.0	1760.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	26772.3	0.0	26772.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	28532.9	0.0	28532.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.4	2.3
10°-20°	1570.6	5.5
20°-30°	2615.6	9.2
30°-40°	4457.1	15.6
40°-50°	7275.5	25.5
50°-60°	7617.1	26.7
60°-70°	3841.9	13.5
70°-80°	485.3	1.7
80°-90°	18.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	28532.9	100.0
0°-180°	28532.9	100.0

Coefficient of Utilization



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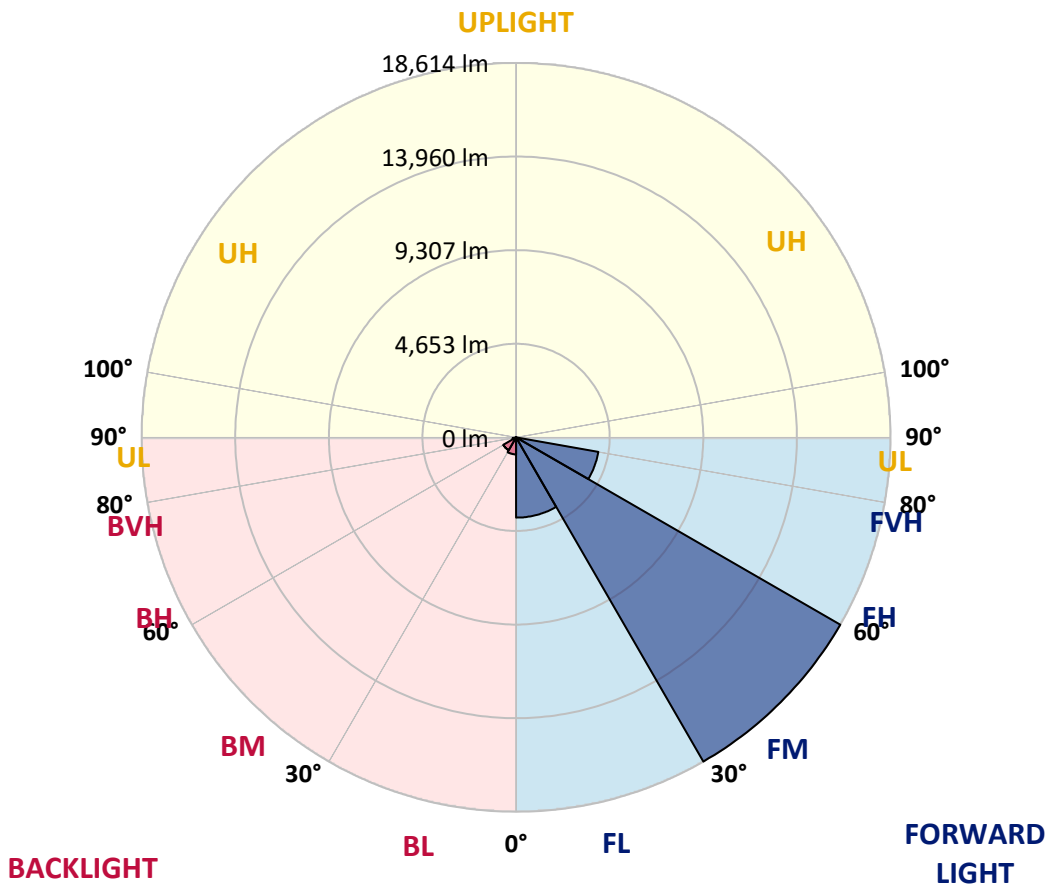
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3991.4	14.0			
FM (30°-60°)	18613.6	65.2			
FH (60°-80°)	4150.6	14.5			G2/5000
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	846.2	3.0	B2/1000		
BM (30°-60°)	736.1	2.6	B1/1000		
BH (60°-80°)	176.6	0.6	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2
2.5°	8593.3	8551.8	8615.2	8542.0	8417.6	8312.8	8176.2	8127.4	7907.9	7700.5	7500.5
5°	9637.2	9649.4	9629.9	9527.5	9351.9	9156.7	8881.1	8820.1	8437.2	8042.0	7615.1
7.5°	9895.8	9888.5	9929.9	9969.0	9939.7	9842.1	9542.1	9481.1	9005.5	8412.8	7790.8
10°	9098.2	9103.1	9188.4	9451.9	9778.7	10117.8	10071.4	10037.3	9571.4	8832.3	7985.9
12.5°	7971.3	8015.2	8105.4	8481.1	9034.8	9805.5	10283.6	10317.8	10090.9	9293.3	8215.2
15°	7483.4	7493.2	7566.4	7793.2	8205.4	9156.7	10193.4	10288.5	10525.1	9756.8	8464.0
17.5°	7471.2	7483.4	7515.1	7615.1	7883.5	8646.9	9903.1	10069.0	10852.0	10254.4	8761.6
20°	7929.8	7922.5	7900.5	7846.9	7964.0	8478.6	9634.8	9817.7	11030.0	10739.8	9061.6
22.5°	8761.6	8751.8	8654.2	8432.3	8337.1	8632.3	9503.1	9668.9	11137.3	11171.5	9307.9
25°	9720.2	9788.5	9605.5	9268.9	9034.8	9025.0	9620.2	9737.2	11230.0	11554.4	9476.3
27.5°	10771.5	10793.4	10637.3	10259.2	9920.2	9654.3	9959.2	10047.0	11332.5	11895.9	9571.4
30°	11925.2	11917.9	11739.8	11300.8	10888.5	10505.6	10530.0	10564.1	11571.5	12286.2	9676.3
32.5°	13366.8	13398.5	13081.4	12483.8	11988.6	11459.3	11276.4	11281.3	12003.3	12788.7	9834.8
35°	15325.4	15247.4	14827.8	13976.6	13132.6	12561.8	12249.6	12222.8	12669.1	13464.3	10110.4
37.5°	17191.4	17198.7	16759.7	15823.0	14757.1	13857.0	13415.5	13342.4	13605.8	14401.0	10569.0
40°	18486.6	18511.0	18328.1	17837.8	16708.4	15435.2	14786.4	14710.8	14820.5	15586.4	11169.0
42.5°	19172.0	19240.3	19291.5	19406.2	18550.0	17406.1	16408.4	16401.1	16286.5	16937.7	11864.2
45°	19198.9	19301.3	19613.5	20396.5	20494.1	19655.0	18569.5	18406.1	17964.6	18384.2	12486.2
47.5°	18137.8	18374.4	19037.9	20589.2	21613.7	21891.7	20816.0	20716.0	19476.9	19528.1	12952.1
50°	15664.5	15910.8	17132.9	19601.3	21896.6	23667.5	23282.1	23074.7	20740.4	20284.3	13176.5
52.5°	13127.7	13352.1	14181.4	17249.9	20723.4	24226.0	25360.3	25113.9	21874.6	20547.7	13083.8
55°	9134.8	9434.8	10244.6	12893.6	18020.7	23138.2	26048.1	25996.9	22886.9	20381.9	12939.9
57.5°	4478.4	4775.9	5583.3	7949.3	13349.7	20201.4	24996.8	25267.6	23491.8	20203.8	12822.8
60°	1870.9	1992.8	2270.9	3488.0	7468.8	15266.9	22623.5	22999.1	23121.1	19962.3	12810.6
62.5°	1085.4	1105.0	1134.2	1446.4	2905.1	8751.8	18767.1	19301.3	21172.2	19642.8	12617.9
65°	819.6	826.9	814.7	887.9	1200.1	3319.7	13559.5	14286.3	17671.9	18393.9	11856.9
67.5°	673.2	673.2	641.5	656.1	753.7	1244.0	7485.9	8500.6	13076.5	15118.1	9790.9
70°	536.6	548.8	534.2	514.7	539.1	687.9	2663.6	3302.7	7615.1	8927.4	5710.1
72.5°	407.3	407.3	431.7	417.1	400.0	431.7	929.3	1044.0	3056.3	3722.2	2061.1
75°	314.7	324.4	341.5	326.9	302.5	256.1	446.4	473.2	922.0	865.9	461.0
77.5°	161.0	163.4	217.1	239.0	224.4	156.1	195.1	214.6	300.0	268.3	170.7
80°	97.6	102.4	122.0	187.8	148.8	82.9	80.5	85.4	141.5	122.0	70.7
82.5°	41.5	43.9	68.3	68.3	61.0	31.7	31.7	31.7	68.3	63.4	29.3
85°	0.0	0.0	12.2	9.8	9.8	12.2	12.2	12.2	17.1	24.4	14.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2	7371.2
2.5°	7371.2	7215.1	7005.4	6815.1	6559.0	6415.1	6215.1	6051.6	5912.6	5868.7	5849.2
5°	7373.7	7105.4	6656.5	6207.7	5656.5	5222.3	4775.9	4422.3	4132.0	4039.3	4014.9
7.5°	7422.5	7027.3	6300.4	5485.7	4563.7	3802.7	3122.2	2512.4	2229.4	2134.3	2114.8
10°	7488.3	6961.4	5888.2	4619.8	3295.3	2317.2	1641.6	1251.3	1065.9	963.5	978.1
12.5°	7573.7	6907.8	5432.1	3683.2	2180.6	1273.3	902.5	756.1	717.1	697.6	687.9
15°	7688.3	6844.4	4866.2	2753.8	1336.7	819.6	695.2	656.1	641.5	631.8	629.3
17.5°	7805.4	6771.2	4290.5	1936.7	887.9	680.5	624.4	604.9	595.2	587.8	585.4
20°	7929.8	6646.8	3614.9	1334.2	700.0	612.2	575.6	553.7	541.5	529.3	526.9
22.5°	7983.5	6446.8	2968.5	934.2	622.0	563.5	517.1	490.3	475.6	465.9	465.9
25°	7932.2	6122.4	2300.2	709.8	565.9	509.8	463.4	434.2	422.0	412.2	412.2
27.5°	7795.6	5705.3	1678.2	587.8	504.9	453.7	409.8	383.0	373.2	368.3	368.3
30°	7644.4	5178.4	1183.0	504.9	436.6	395.1	358.6	341.5	339.0	334.2	334.2
32.5°	7515.1	4685.7	814.7	443.9	385.4	343.9	319.5	312.2	314.7	309.8	312.2
35°	7444.4	4202.7	604.9	395.1	343.9	304.9	292.7	292.7	292.7	290.3	290.3
37.5°	7473.7	3727.1	492.7	361.0	307.3	278.1	265.9	270.8	275.6	275.6	275.6
40°	7620.0	3305.1	436.6	329.3	275.6	253.7	243.9	251.2	258.6	263.4	263.4
42.5°	7805.4	2963.6	395.1	302.5	253.7	229.3	224.4	231.7	239.0	243.9	243.9
45°	7922.5	2619.7	353.7	268.3	231.7	202.5	202.5	212.2	209.8	212.2	212.2
47.5°	7976.1	2346.5	312.2	231.7	197.6	175.6	178.1	182.9	178.1	182.9	182.9
50°	7844.4	2070.9	275.6	192.7	163.4	153.7	158.5	156.1	156.1	165.9	165.9
52.5°	7603.0	1866.0	243.9	163.4	139.0	136.6	141.5	131.7	134.2	134.2	131.7
55°	7424.9	1748.9	217.1	141.5	119.5	122.0	119.5	102.4	92.7	82.9	80.5
57.5°	7337.1	1702.6	197.6	126.8	107.3	107.3	97.6	70.7	53.7	41.5	36.6
60°	7317.6	1646.5	178.1	109.8	95.1	90.3	70.7	41.5	26.8	19.5	17.1
62.5°	7132.2	1509.9	161.0	87.8	82.9	73.2	43.9	24.4	14.6	9.8	7.3
65°	6524.8	1241.5	143.9	68.3	63.4	53.7	26.8	14.6	7.3	2.4	0.0
67.5°	5190.6	880.5	126.8	51.2	43.9	34.1	17.1	9.8	2.4	0.0	0.0
70°	2992.9	475.6	104.9	36.6	29.3	22.0	12.2	4.9	0.0	0.0	0.0
72.5°	1000.1	222.0	80.5	24.4	22.0	17.1	7.3	2.4	0.0	0.0	0.0
75°	219.5	131.7	53.7	17.1	14.6	12.2	4.9	0.0	0.0	0.0	0.0
77.5°	82.9	92.7	26.8	12.2	9.8	7.3	2.4	0.0	0.0	0.0	0.0
80°	31.7	61.0	12.2	7.3	7.3	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	17.1	24.4	7.3	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.8	12.2	4.9	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)